

ABSTRACT

In the conventional plating process, plating solutions are newly prepared and the plating solutions used previously are dumped as industrial wastes, which is accompanied by environmental loads, effluent costs, costs for purchasing new solutions, and the like, and the present invention can recycle a former plating solution to prepare a new plating solution, for example, in the following order: a process for preparing a Sn-Bi alloy plating solution (S1); a process for an active carbon treatment to remove the complexing agent (S2); a process for removing Bi (S3); a process for a sedimenting treatment (S4); and a process for analyzing and correcting Sn plating solution. The recycling of plating solutions eliminates their effluent treatment and reduces environmental loads, effluent costs, and costs for purchasing new solutions. In the administration of the plating solution compositions, the conventional data can be utilized to facilitate the administrating operation.